

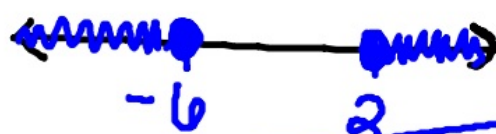
Bellwork: 10/18/12

Solve the following absolute value inequality.

Graph the solutions and put your answer in interval notation.

$$\frac{-2|4x+8| \leq -32}{-2}$$

$$|4x+8| \geq 16$$



$$\begin{array}{r} 4x+8 \geq 16 \\ -8 \quad -8 \\ \hline 4x \geq 8 \\ x \geq 2 \end{array}$$

$$\begin{array}{r} 4x+8 \leq -16 \\ -8 \quad -8 \\ \hline 4x \leq -24 \\ x \leq -6 \end{array}$$

$$(-\infty, -6] \cup [2, \infty)$$

Transformations:

$$y = a f(x-h) + k$$

affects "y" value
 a is \ominus ; reflects
 a is > 1 ; stretch
 $0 < a < 1$; compress

affects x value

$X-h$; h is \oplus
right

$X+h$; h is \ominus
left

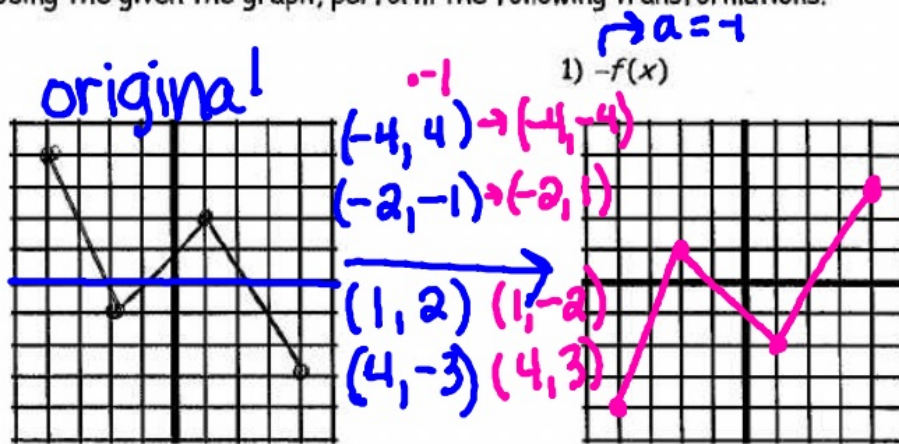
affects "y" value
 $+k \rightarrow$ up
 $-k \rightarrow$ down

Notes:

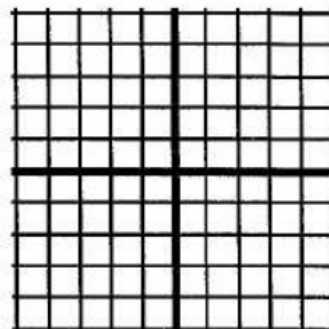
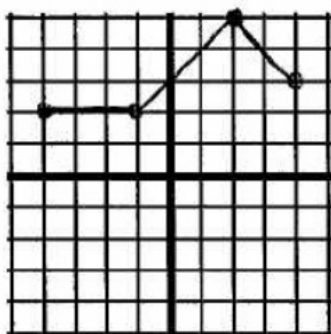
Algebra 2
Transformations (a only)

Name: _____

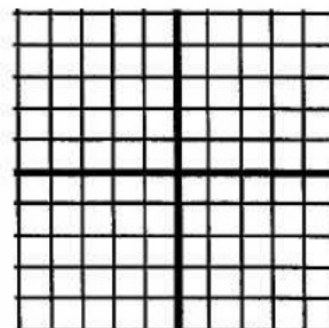
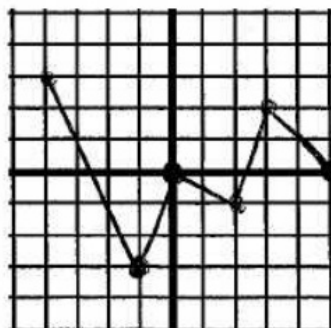
Using the given the graph, perform the following transformations.



2) $-f(x)$



3) $-f(x)$

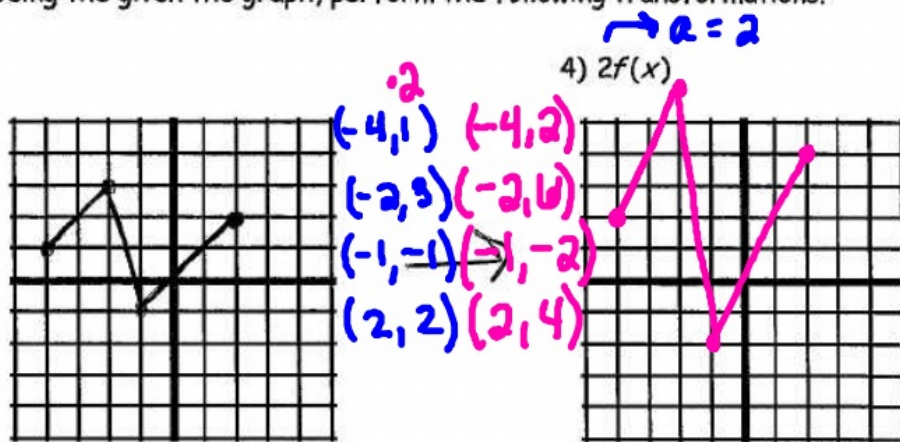


Notes

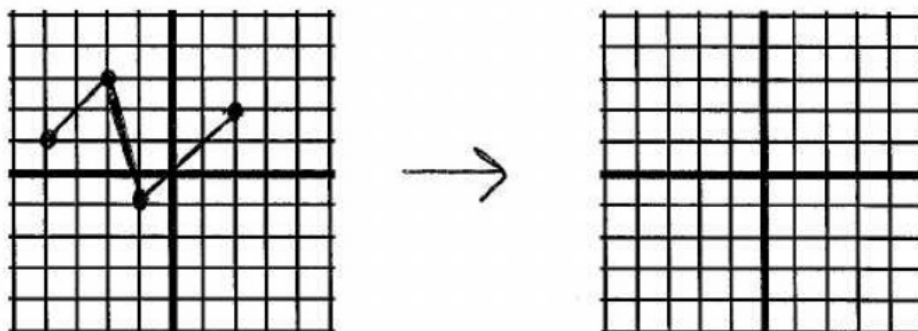
Algebra 2 Transformations (a only)

Name: _____

Using the given the graph, perform the following transformations.



5) $-2f(x)$



6) $\frac{1}{2}f(x)$

